

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

SR-6J

October 21, 2021

John Wolski Senior Remediation Manager Raytheon Technologies - Corporate Remediation 9 Farm Springs Road Farmington, CT 06032

Subject: Review of Second Quarter 2021 Groundwater Management Zone (GMZ) Monitoring and

System Performance Report (2Q 2021 Report)

Hamilton Sundstrand Corporation (HSC) Plant 1/2 Facility

Southeast Rockford Groundwater Contamination Superfund Site, Rockford, Illinois

ILD981000417

Dear Mr. Wolski:

U.S. Environmental Protection Agency (EPA) has reviewed the above titled document dated September 13, 2021 prepared by AECOM on behalf of HSC for the Southeast Rockford Groundwater Contamination Superfund Site, Source Area 9/10 (SA 9/10) in Rockford, Illinois.

Based on EPA comment letter for 1Q 2021 Report, it appears those comments applicable to this 2Q 2021 Report have been implemented per EPA review of the 2Q 2021 Report and the associated response to comment letter.

2Q 2021 comments are below. EPA requests that these comments be addressed and a revision of 2Q 2021 Report be submitted, as the comments describe what appear to be errors or anomalies that warrant additional clarification or revision for 2Q reporting and the public record. If there are uncertainties or differences of opinion with any of the below comments please contact me so that we may discuss and agree on an appropriate path forward.

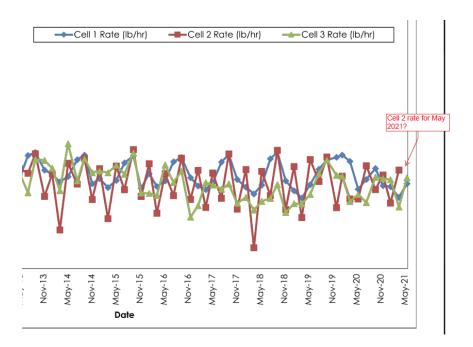
Comments

1. **Table 4.6. Cell 1 Column. End of Table.** Cell 1 appears to have been off from the period 3/26-5/26, but the cumulative mass removed increased. Please verify and correct as necessary.

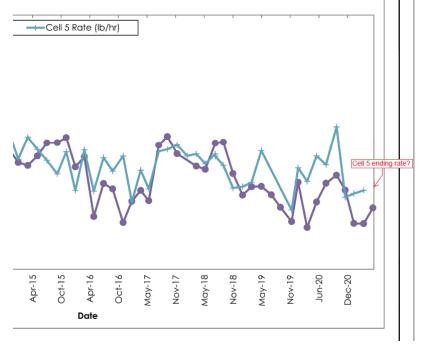
Pulse-off period	July 22, 2020	to September 29, 20	120			
9/29/2020	14999	0.00	55.03	14999	0.00	119.
11/25/2020	15246	0.00	55.13	15246	0.00	119.8
Pulse-off period	November 25,	2020 to January 21	, 2021			
1/21/2021	15247	0.00	55.13	15247	0.00	119.8
3/26/2021	15524	0.00	55.20	15524	0.00	119.9
Pulse-off period	Marcn ∠6, 202	21 to May 26, 2021	_)		
5/26/2021	15524	0.00	55.21	15524	0.00	119.

2. **Table 4.6. Mass Removal Rate.** Beginning in about 2011 for cells 1-3 and 2012 for cells 4-5 the mass removal rate is stated as '0.00'. Clearly the rate is not zero, but it is below the precision of the number used in the table. The rate value should be converted to scientific notation similar to what is shown in Table 4.5 for the removal rates of the various COCs.

- 3. **Figure 4.** There are dashed potentiometric lines in the figure. Please add this symbol and definition (dashed where inferred/approximately located) to the legend.
- 4. **Figure 5**. The results box for PMW02 shows two rows for 24-Feb-21. Verify and correct as necessary.



6. **Figure 9.** There appears to be a missing value on this plot for Cell 5. Verify and correct as necessary.



7. Appendix D.

a. Well identifications (IDs) in Appendix D don't match well IDs in the various components of this report; report and letter text, appendices, figures, and tables (RAMW-01 vs RAMW01, GMZ-01

vs GMZ01, etc.). Name consistency for wells should be verified and corrected as necessary throughout the deliverable (and electronic data deliverable (EDD)).

b. Field notes indicated that sampling criteria for collecting samples from groundwater wells would meet a 10% stabilization target for the field parameters in three consecutive 5-minute intervals (marked by pink * on image below). If stabilization could not be met, then the sample could be collected after three well volumes have been removed from the well. There is an inconsistency in the field forms relating to reporting the minimum purge volume (underlined in pink; equal to 3 well volumes) and the statement about stabilization criteria. The field form is not clear on which takes precedence and if this follows the UFP-QAPP and low flow groundwater sampling standard operating procedure (SOP).

Additionally, the low flow groundwater SOP (Attachment 1 page 8) in the UFP-QAPP indicates a more nuanced stabilization target (e.g., +/- 0.1 for pH, +/- 3% for SEC, +/- 10 millivolts for ORP, etc.) than the generalized 10% in the field form. If these (and others in 2Q 2021) collections are deviations from the UFP-QAPP this should be documented in a deviations (or similarly named) section of the report.

A=COM			Well ID:	GMZ-03			
N STUDY OF STATE A			- D	Page 1 of 2			
Ground Wa	ater Samp	ole Collection	1 Record				
Client: UTAS Plants 1/2 Facility	Date:	05 19 21 TH	ne: Start	(24hr)			
Project No: 60651001-4213			Finish	1120			
Site Location: Rockford, Illinois Weather: 65° overcost	Collector(s	s): A. Sukolo	wsky				
WELL and WATER LEVEL DATA: (measured from							
. 11. 74				27			
Total well length (ft): 44.39 Screen interval(ft): Water table depth (ft): 28.39 Casing type/diametr				7. 82 (gals)			
Water table depth (ft): 28.39 Casing type/diameter Water column length (ft): 16.00	61. 2140	William pargo vo	iumo.	(calculations on reverse)			
2. WELL PURGE DATA							
Purge/Sample Method: Proactive SS Monsoon Pump							
Well is stable when readings stabilize to ±/- 10% ove	er three (3) cons	secutive readings colle	ected at 5-minu	te Intervals.			
Well is stable when readings stabilize to +/- 10% over three (3) consecutive readings collected at 5-minute intervals. If three (3) well volumes have been removed, and the readings have not stabilized, a sample shall be collected.							
Field Testing Equipment Used: Make	Model		Serial Number	er(s)			
YSI	5 56 M			180100734			
Lamotte Lamotte	2020 L Smart	A Colorimeter		54- 4114 195 - 2215			
Begin purge at 1025							
	ORP DO mV) (mg/L)	Turbidity Flow Rate (NTU) (ml/mln)	Drawdown (feet)	Color/Odor			
	8.9 10.95	15.2 400	28.39	Semi cloudy Inone			
1000		5.20 400	28,40	clear 1			
		4.98 400 3.46 400	28.41				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3,21 400	28,42				
1030 17		2.93 400	28.43				
1/00 1400 14.4 8.04 1120 15		2-78 400	28.43				
	4.0 10.63	2.80 400	28.43				
				 			
				A A			
4.2.3							
→ 4.23 gul.							
ハエン	914.						

Furthermore, at one location (see below) a little over one well volume was removed and 4 stabilization criteria measurements made. As described above, it is unclear from this form regarding precedence in stabilization versus minimum purge volume. Please clarify for 2Q 2021 and modify future field form templates as needed.

AECOM					Well ID:	RAMW-05
G	round Water	r Samı	ole Co	lection	n Record	Page 1 of 2
Client: UTAS Plants 1/2 Facility]	Date: 5	-19- L	. (Tir	ne: Start Finish	1015 (24hr)
1. WELL and WATER LEVEL DATA:	(measured from Top	of Casino	g) Appro		ump intake(ft):	36 S (gals) (calculations on reverse)
WELL PURGE DATA Purge/Sample Method:	tive SS Monsoon Pur te to +/- 10% over thre removed, and the rea	ee (3) cons	secutive r e not stab	eadings colle	ected at 5-minu ple shall be co	ite intervals, illected.
Field Testing Equipment Used:	Make	Model			Serial Numb	er(s)
Begin purge at _/020	YSI Lamotte Lamotte	556 M 2020 Smart	IPS 2 Colorim	eter	19 K 10 738-1 0059 S	
	pec. Cond. ORP (μS/cm) (mV)	DO (mg/L)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
(24hr) (m) (°C) //30 SOCK 18.4 760 //35 75°CC 18.4 7.60 //40 LAPPUL 15.14 7.60 //40 //5.500 18.5 7.59	1569 244.0 1577 244.0 1580 256.2 1585 251.0	10.76	5.82 5.35 5.19 4.98	500 500 500 500	27.35 27.35 27.35 27.35	(Irer lains.
	3.3 90	١.				

If you have any questions, please call me at (312) 886-7153.

Sincerely,

Jennifer Knoepfle, Ph.D., P.G. Remedial Project Manager

cc (via electronic mail):

Brian Conrath, Project Manager, IEPA Jon Alberg, Senior Principal, AECOM Peter Hollatz, Project Manager, AECOM Tom Turner, EPA ORC Attorney Joe Richards, Hydrogeologist, USGS